

Message Text

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C O N F I D E N T I A L USNATO 0525

E.O. 11652: GDS

TAGS: MPOL, NATO

SUBJ: AIRCRAFT SURVIVABILITY MEASURES

REFS: A. STATE 283229 (NOTAL); B. USNATO 0076; C. USNATO 1775 (NOTAL)

D. USNATO 6821 (NOTAL)

BEGIN SUMMARY. AT JANUARY 24 MEETING US, UK AND FRG REPS EXCHANGED VIEWS WITH SHAPE AND SHAPE TECHNICAL CENTER (STC) ON PROVIDING ANALYTICAL HELP TO REACTIVATE AIRBASE DEFENSE STUDY NOW DORMANT AT STC. MISSION BELIEVES THAT COMPLETED STUDY WILL SUPPORT US POSITION TO SHELTER 100 PERCENT OF ALL IN PLACE AND REINFORCEMENT AIRCRAFT THROUGH M PLUS 30.

MISSION RECOMMENDS (A) THAT US PRESS EWG TO REACTIVATE STUDY ON AIRCRAFT SURVIVABILITY MEASURES ON CONDITION THAT US AND FRG PROVIDE ANALYSTS, AND (B) THAT US LEND AN ANALYST TO STC, INITIALLY FOR SIX MONTHS, TO HELP COMPLETE DEVELOPMENT OF STC MODEL OF AIR BASE OPERATIONS, PROVIDED THAT (1) STC WORK ON STUDY WILL RESUME
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BEFORE AND MARCH, AND (2) US DETAILED EXAMINATION OF STC MODEL INDICATES THAT STC WILL TAKE A WORKABLE APPROACH TO THE STUDY. REQUEST WASHINGTON COMMENT. END SUMMARY.

1. MEETING WAS CONVENED IN RESPONSE TO STATE (REF A) REQUEST FOR A CO
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FERENCE OF PLANNERS AND ANALYSTS TO EXPLORE STATUS OF STC STUDY
(STC OPS 73/1), DORMANT SINCE SEPT 1973 (SEE REF B), PRIOR TO
COMMITMENT BY US AND FRG OF NATIONAL ANALYSTS TO ASSIST STC IN
COMPLETING STUDY.

2. VIEWS OF PARTICIPANTS ON EXPECTED RESULTS OF COMPLETED STC
STUDY. AS A POINT OF DEPARTURE FOR DISCUSSION, NATIONAL AND SHAPE
REPS CANDIDLY EXPRESSED WHAT THEY HOPED TO ACHIEVE THROUGH NATIONAL
OR NATO STUDIES ON AIRCRAFT SURVIVAL MEASURES. FRG REP
(LTC SCHITTKO, AIR STAFF, MOD) SAID GERMANY PRIMARILY INTERESTED
IN DETERMINING MOST COST-EFFECTIVE MIX OF ACTIVE AIR
DEFENSES, NOT ONLY AT NATO AIR BASES, BUT ALSO INCLUDING ENTIRE
SPECTRUM OF INITIAL (BELT), EN ROUTE (ORGANIC AND AREA DEFENSE)
AND TERMINAL (POINT) AIR DEFENSES TO WHICH ATTACKING WARSAW PACT
AIRCRAFT WOULD BE SUBJECTED BEFORE REACHING NATO AIR BASES. HE
STATED THAT FRG WOULD PROVIDE A NATIONAL ANALYST TO ASSIST STC,
IF THE STUDY FOCUSES ON THOSE VARIOUS MIXES OF PASSIVE AND ACTIVE
DEFENSE MEASURES AT INDIVIDUAL NATO AIR BASES WHICH CONTRIBUTE TO
FRG NATIONAL STUDY OBJECTIVES. UK REP (FAUSET, MOD) SAID UK
INTERESTED IN ANALYZING NEEDS FOR AIRCRAFT SURVIVABILITY MEASURES
IN TWO CONTEXTS: (1) MEASURES NEEDED FOR BASES IN THE UK WHICH
PRESENTLY HAVE NO AIRCRAFT PROTECTION AT ALL, AND (2) ADDITIONAL
PROTECTION MEASURES FOR RAF GERMANY BASES, OVER AND ABOVE SHELTERING
AND SAM DEFENSE ALREADY PLANNED. UK REP SAID SINCE NATIONAL
STUDIES NOW COMPLETED HAVE DEALT WITH BOTH AREAS UK DID NOT PRE-
SENTLY PLAN TO PROVIDE UK ANALYST TO STC. USNATO REP (PARRIS)
CITED EWG GUIDANCE TO "STUDY THE DESIRABILITY AND COST-EFFECTIVENESS
OF USING INFRASTRUCTURE FUNDS TO PROVIDE SHELTERS FOR ALL ASSIGNED/
EARMARKED TACTICAL COMBAT AIRCRAFT, AND FOR NATIONAL AUGMENTATION
FORCES PLANNED FOR DEPLOYMENT TO ACE UP TO M PLUS 30", AS THE
US OBJECTIVES FOR STC STUDY. SHAPE REP (GEN MILLER) STATED THAT
SHAPE HOPED, INTER ALIA, THAT THE STC STUDY WOULD PROVIDE ANALYTICAL
SUPPORT FOR AIRCRAFT SURVIVABILITY MEASURES AS FORCE PROPOSALS.

3. SCOPE AND STATUS OF STC STUDY. AGAINST THE BACKGROUND, STC
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REP (FACEY) THEN EXPLAINED THAT THE ANALYTIC VEHICLE STC INTENDED
TO USE FOR STUDY IS AN AIR BASE OPERATIONS SIMULATION MODEL USING
NUMBERS AND KINDS OF AIRCRAFT SHELTERS, AIR DEFENSE WEAPONS, AND
AIR BASE LAYOUT AS VARIABLE INPUTS ASSESSED AGAINST A FIXED AIR
BASE ATTACK THREAT. THE MODEL MEASURE OF EFFECTIVENESS IS THE
SORTIE GENERATION RATE. HE EXPECTED THAT ONCE COMPLETED THE MODEL
WOULD TEST RELATIVE EFFECTIVENESS OF ALTERNATIVE AIRCRAFT
PROTECTIVE MEASURES IN TERMS OF IMPROVED SORTIE GENERATION
CAPABILITY OF THE BASE. STC REP ACKNOWLEDGED THAT DEVELOPMENT OF
THE AIR BASE OPERATIONS MODEL CEASED IN SEPTEMBER 1973, BUT
ESTIMATED COMPLETION IN TWO TO THREE MONTHS FOR REACTIVATION. HE
STATED THAT NATIONAL ANALYSTS ON LOAN TO STC WOULD BE INITIALLY
TASKED TO FINISH DEVELOPMENT WORK ON STC AIR BASE DEFENSE MODEL, BUT

CURRENT WORKLOAD IN STC PRECLUDES PRODUCTIVE EMPLOYMENT OF ON-LOAN ANALYSTS BEFORE SUMMER 1975. (COMMENT: US REP FEELS THAT ESTIMATE IS BASED ON CURRENT PRIORITIES WHICH CAN BE REDIRECTED BY PRESSING SHAPE TO INCREASE PRIORITY FOR COMPLETION OF MODEL. END COMMENT.)

4. POTENTIAL USEFULNESS OF STUDY TO US UPON COMPLETION. IN ITS ULTIMATE MODE OF EMPLOYMENT, THE STC MODEL WOULD ASSESS IMPROVEMENTS IN SORTIE GENERATION AT AN AIR BASE THROUGH INCREMENTAL ADDITIONAL

INVESTMENTS IN ONE FORM OF AIRCRAFT PROTECTION (E.G., MORE AIRCRAFT SHELTERS), COMPARED WITH INCREMENTAL INVESTMENTS IN AN ALTERNATE FORM OF AIRCRAFT PROTECTION (E.&., MORE SAMS). MODEL WOULD ALSO ASSESS RELATIVE IMPROVEMENTS IN SORTIE GENERATION RATES OBTAINABLE BY INCREASES IN VARIOUS MIXES OF AIRCRAFT PROTECTIVVE MEASURES AT SEVERAL LEVELS OF EQUAL INVESTMENT. MISSION COMMENT: STC MODEL WOULD DEMOSTRATE THE BENEFITS OF PROVIDING ADDITIONAL AIRCRAFT SHELTERS AT NATO BASES UNDER CURRENTLY PLANNED BEDDOWNS AND, WITH PROPER INPUT DATA, AT FUTURE COLLOCATED OPERATING BASES (COBS). HOWEVER, POSSIBILITY EXISTS OF ASSESSMENT THAT, DOLLAR FOR DOLLAR, OTHER FORMS OF AIRCRAFT PROTECTION (E.G., MORE AAA OR SAMS) WOULD HAVE A HIGHER PAYOFF THAN AN EQUAL INVESTMENT IN MORE SHELTERS. THE LATTER FINDING COULD, OF COURSE, BE COUNTER-PRODUCETIVE TO NATO ACCEPTANCE OF US DECLARED OBJECTIVE TO OBTAIN INFRASTRUCTURE SUPPORT FOR SHELTERING ALL IN-PLACE AND AUGMENTATION AIRCRAFT THROUGH M PLUS 30. WASHINGTON REP (EINSTEIN) BELIEVES THAT GREATER FAMILIARITY WITH THE STC MODEL IS NEEDED BEFORE US ANALYSTS CAN MAKE A JUDGEMENT AS TO THE RELATIVE PREFERENCES LIKELY
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TO EMERGE FROM SIMULATION RUNS. STC REP OFFERED TO EXPLAIN MODEL IN DEPTH TO NATIONAL ANALYSTS. END COMMENT.

5. THE PHYSICAL PRESENCE AT STC OF A US ANALYST DEDICATED SOLELY TO WORK CONCERNING AIRCRAFT SURVIVABILITY MEASURES WOULD INFLUENCE BOTH THE RATE OF PROGRESS AND THE QUALITY OF THE STUDY. MISSION RECOMMENDS (A) THAT THE US PRESS EWG TO ASK SHAPE TO REACTIVATE STUDY ON AIRCRAFT SURVIVABILITY MEASURES WITH CONDITION THAT US AND FRG EACH PROVIDE AN ANALYST; (B) THAT US LEND AN ANALYST TO STC INITIALLY FOR SIX MONTHS, PROVIDING STC AGREES TO RESUME WORK ON STUDY BEFORE THE END OF MARCH (DELAY BEYOND MARCH WOULD MAKE IT UNLIKELY THAT STC COULD COMPLETE STUDY IN TIME FOR DECEMBER DPC ENDORSEMENT OF ADDITIONAL AIRCRAFT SHELTERS); AND (C) THAT THE US AVAIL ITSELF OF STC REP'S OFFER TO EXPLAIN IN DEPTH TO A US ANALYST IN FEBRUARY THE LOGICAL PROCESSES AND INNER WORKINGS OF THE STC MODEL. REQUEST WASHINGTON COMMENTS.BRUCE

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